1

SEQUENCE LISTING

<110> Stanton, Jr., Vincent P.

<120> GENE SEQUENCE VARIANCE IN GENES RELATED
      TO FOLATE METABOLISM HAVING UTILITY IN DETERMINING THE
      TREATMENT OF DISEASE

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<210> 3
<211> 3951
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 166, 3432, 3682, 3937
<223> n = t or c

<221> misc_feature
<222> 577, 638, 1708, 3730, 3925
<223> n = a or g

<400> 3
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<210> 4
<211> 2816
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> 175, 1067
<223> n = g or a

<221> misc_feature
<222> 341
<223> n = c or g

<221> misc_feature
<222> 791, 1997, 2618, 2653
<223> n = t or c

<221> misc_feature
<222> 1337
<223> n = c or a

<221> misc_feature
<222> 2107
<223> nucleotide in position 2107 is g, or absent

<221> misc_feature
<222> 2583
<223> n = t or g

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<210> 5
<211> 3772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 431, 441
<223> n = a or g

<221> misc_feature
<222> 498
<223> n = c or t

<221> misc_feature
<222> 579, 599
<223> n = g or c

<400> 5
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<221> misc_feature
<222> 1497
<223> n = t or a

<400> 6
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tcggagctgc cgcgccggcc cttgcccccc gccgcacagg agcgggacgc cgagccgcgt       180
ccgccgcacg gggagctgca gtacctgggg cagatccaac acatcctccg ctgcggcgtc       240
aggaaggacg accgcacggg caccggcacc ctgtcggtat tcggcatgca ggcgcgctac       300
agcctgagag atgaattccc tctgctgaca accaaacgtg tgttctggaa gggtgttttg       360
gaggagttgc tgtggtttat caagggatcc acaaatgcta aagagctgtc ttccaaggga       420
gtgaaaatct gggatgccaa tggatcccga gactttttgg acagcctggg attctccacc       480
agagaagaag gggacttggg cccagtttat ggcttccagt ggaggcattt tggggcagaa       540
tacagagata tggaatcaga ttattcagga cagggagttg accaactgca aagagtgatt       600
gacaccatca aaaccaaccc tgacgacaga agaatcatca tgtgcgcttg gaatccaaga       660
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aactaggtca aaaatctgtc cgtgacctat cagttattaa tttttaagga tgttgccact      1200
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aagctatttt tggaatattt ttagaatatt ttaagaattt cacaagctat tccctcaaat      1440
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<210> 7
<211> 1187
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 276, 321, 534, 656
<223> n = c or t

<221> misc_feature
<222> 452, 640
<223> n = a or g

<221> misc_feature
<222> 492, 625
<223> n = c or a

<221> misc_feature
<222> 458
<223> nucleotide in position 458 is c, or absent

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aagactctca gctgtggccc tgggctccgt tctgtgccac acccgtggct cctgcgtttc    720
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cctccgtccc ccgcccgccg cgccatgcct gtggccggct cggagctgcc gcgccggccc    960
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accggcaccc tgtcggtatt cggcatgcag gcgcgctaca gcctgagagg tgacgccgcg   1140
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<210> 8
<211> 18597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 701, 13751
<223> n = c or a

<221> misc_feature
<222> 716, 1293, 2401, 2429, 2618, 3083, 3125, 3635, 4256, 4898,
      5062, 5167, 11069, 13298, 14479, 14730, 14796,15344, 15450,
      15503, 15590,15840, 16149
<223> n = a or g

<221> misc_feature
<222> 732, 1379, 1590, 2488, 3212, 5006, 11238, 11422, 11686,
      12598, 13171, 13645, 13782, 13806, 13813, 14586, 14788,
      15042, 15546, 15770
<223> n = c or t

<221> misc_feature
<222> 1322, 1688
<223> n = c or g

<221> misc_feature
<222> 2594, 11293, 16199, 16203
<223> n = g or t

<221> misc_feature
<222> 3619
<223> n = a or t

<221> misc_feature
<222> 14547
<223> nucleotide in position 14547 is t, or absent

<400> 8

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tgtctcaaaa aaaaaaaaaa aagaccgcca gggctcaaac aaaaaacctc ggaaaagccc     180
tggcggtctt tttttttttt tttttttttt tttttgggа cagtcttgct ctgtcgccca     240
ggctggagta caatggtcgg atcttggctc actgcaacct ctgcctccca ggttcaagca     300
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ctggcggttt ttaatcaagt agaaaagctg cattatacca cttgcttcgg ttgcttcagt     540
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cagttttgtt gacaagaccg caggaaaacg tgggaactgt gctgctggct tagagaaggc     660
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<213> Homo sapiens


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<210> 11
<211> 5847
<212> DNA
<213> Homo sapiens

<220>
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<222> 124, 3346, 5024, 5484, 5650
<223> n = c or t

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<222> 439, 1333, 1979, 2151, 2469, 2977, 4784, 5268, 5631, 5733
<223> n = g or a

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<223> nucleotide at position 1045 is c, or absent

<221> misc_feature
<222> 1046
<223> nucleotide at position 1046 is t, or absent

<221> misc_feature
<222> 2636, 5287

<223> n = c or g

<221> misc_feature
<222> 3118
<223> n = g or t

<221> misc_feature
<222> 3257, 4053
<223> n = a or c

<221> misc_feature
<222> 5440
<223> n = t or a

<400> 11

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<210> 12
<211> 2158
<212> DNA
<213> Homo sapiens

<220>
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<222> 802, 1900
<223> n = c or t

<221> misc_feature
<222> 1747
<223> n = t or g

<400> 12

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<210> 13
<211> 2630
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1424
<223> n = c or a

<221> misc_feature
<222> 1649, 2554
<223> n = a or g

<400> 13

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<210> 14
<211> 2912

<212> DNA
<213> Homo sapiens

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<222> 263, 1037, 1139, 1955, 2017, 2037, 2189, 2309
<223> n = a or g

<221> misc_feature
<222> 266
<223> n = g or t

<221> misc_feature
<222> 527
<223> n = c or g

<221> misc_feature
<222> 1217, 1647, 2282
<223> n = c or t

<400> 14

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ggcgtctgcg cgcggcntaa cgacccaggt cgcggcgcgg cggggcttga gcgcgtggcc  1080
ggtgccgcag gagccgagca tggagtacca ggtatcaggc gggccagcgg ccagcggnc  1140
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agatgccata ctctctgttg cttaacctnc aggctaggct aacagtgctg gcatggcagg    2220
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<210> 15
<211> 2196
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<221> misc_feature
<222> 1784
<223> n = a or g

<221> misc_feature
<222> 464
<223> n = g or t

<221> misc_feature
<222> 120, 519, 668, 1059, 1308
<223> n = c or t

<221> misc_feature
<222> 1289
<223> n = c or a

<400> 15
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ctggaccctg agcggcatga gagactccgg gagaagatga ggcggcgatt ggaatctggt   180
gacaagtggt tctccctgga attcttccct cctcgaactg ctgaggagc tgtcaatctc    240
atctcaaggt ttgaccggat ggcagcaggt ggccccctct acatagacgt gacctggcac   300
ccagcaggtg accctggctc agacaaggag acctcctcca tgatgatcgc cagcaccgcc   360
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gagatcacgg gccatctgca caaagctaag cagctgggcc tgangaacat catggcgctg   480
cggggagacc caataggtga ccagtgggaa gaggaggang gaggcttcaa ctacgcagtg   540
gacctggtga agcacatccg aagtgagttt ggtgactact ttgacatctg tgtggcaggt   600
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aaggtgtntg cggagccga tttcatcatc acgcagcttt tctttgaggc tgacacattc   720
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ggcctccact ctacaccct caaccgcgag atggctacca cagaggtgct gaagcgcctg   1020
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```

<210> 16
<211> 1137
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 575, 648
<223> n = t or c

<221> misc_feature
<222> 771
<223> n = g or c

<221> misc_feature
<222> 883
<223> n = g or a

<221> misc_feature
<222> 942
<223> nucleotide at position 942 is c, or absent

<221> misc_feature
<222> 1052
<223> n = a or c

<400> 16
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aagtgacctg ccaaagcttg tacacatgga aagtagtaga accaggatgc aaacacattt      180
ctttaccacc aacaccaata tctattttgc caacaaaaca atgagggggc ctgagtaaat      240
aatctcaacg gttaactcca ccctccaatt gagatacttt ttttttttt ttttttttga       300
gacagggtct ggctctctgt cacccaggct ggaatgcagt ggtgccctca gcttcccaag      360
tagctaggac tacaggccac atgccaccat gcccagctaa tttttgtatt ttttgtagaa      420
acagggtttt gccatattgc caaggctgtt ctcaaactcc tgggctcaag cagtcctcct      480
gcctcagcct cctaaagtaa gagaagttgg aaggaaaatg ggtgaaaata agaagttct       540
cagttatact gcagcttgtt catgcctcct gcctngggat gccgcagtgg ctgccccagc      600
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cctgcccttt cagcctcagc ccttccctca gtgaaggaga gaaaaagnga tttaacaaag    660
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